

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau(43) International Publication Date
11 December 2003 (11.12.2003)

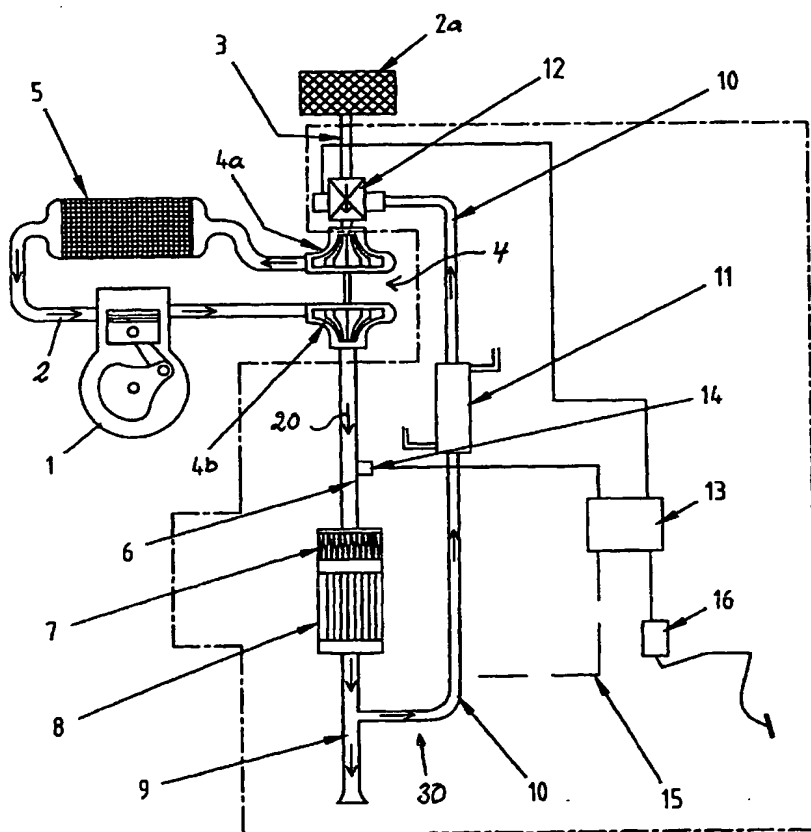
PCT

(10) International Publication Number
WO 03/102391 A1

- (51) International Patent Classification⁷: F01N 3/023, F02D 21/08
- (21) International Application Number: PCT/SE03/00848
- (22) International Filing Date: 26 May 2003 (26.05.2003)
- (25) Filing Language: Swedish
- (26) Publication Language: English
- (30) Priority Data:
0201647-5 3 June 2002 (03.06.2002) SE
- (71) Applicant (for all designated States except US): STT EMTEC AB [SE/SE]; Kontorsvägen 9, S-852 29 Sundsvall (SE).
- (72) Inventor; and
- (75) Inventor/Applicant (for US only): BLOMQUIST, Michael [SE/SE]; Blåklintsvägen 3, S-862 34 Kvissleby (SE).
- (74) Agents: OLSSON, Jan et al.; Bjerkéns Patentbyrå KB, P.O. Box 1274, S-801 37 Gävle (SE).
- (81) Designated States (*national*): AE, AG, AL, AM, AT (utility model), AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ (utility model), CZ, DE (utility model), DE, DK (utility model), DK, DM, DZ, EC, EE (utility model), EE, ES, FI (utility model), FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK (utility model), SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO,

[Continued on next page]

(54) Title: A REGULATION METHOD AND A DEVICE FOR EXHAUST GAS PURIFICATION



(57) Abstract: The invention relates to a device for purifying exhaust gases from a combustion engine (1), comprising an arrangement (30) for recirculating exhaust gases from the engine to an air intake (2) thereof, a valve device (12) controlled by a control device (13) for regulating the relation between fresh air and recirculated exhaust gases supplied to the engine, and a regenerable filter (8) adapted to catch particulate constituents of the exhaust gases. The device further comprises means (14) for recording the temperature of the exhaust gases from the engine. The control device (13) is adapted to be supplied with temperature information from said temperature recording means (14), the control device (13) being adapted, with the aid of this temperature information and the valve device (12), to regulate the relation between fresh air and recirculated exhaust gases supplied to the engine so as to achieve a composition of the exhaust gases from the engine that is favourable with respect to the regeneration of the filter (8).